WEST Search History

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DATE: Thursday, July 22, 2004

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Search Results - Record(s) 1 through 10 of 16 returned.

1. Document ID: US 20040126850 A1

L6: Entry 1 of 16

File: PGPB

Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040126850

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040126850 A1

TITLE: Directed evolution of protein in Mammalian cells

PUBLICATION-DATE: July 1, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Peelle, Beau

Somerville

MA

US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw. De

2. Document ID: US 20030077730 A1

L6: Entry 2 of 16

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030077730

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030077730 A1

TITLE: Directed evolution of protein in mammalian cells

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Peelle, Beau

Somerville

MA

US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/6, 530/350, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw Da

3. Document ID: US 20030049695 A1

L6: Entry 3 of 16

File: PGPB

Mar 13, 2003

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030049695

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049695 A1

TITLE: PDZ domain interactions and lipid rafts

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lu, Peter S.	Mountain View	CA	US	
Diaz-Sarmiento, Chamorro Somoza	Palo Alto	CA	US	
Seed, Brian	Boston	MA	US	
Xavier, Ramnik	Boston	MA	US	
Irving, Bryan Allen	San Francisco	CA	US	

US-CL-CURRENT: <u>435/7.21</u>

Full	Title	Citation Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMIC	Draw De
	4. I	Document ID:	US 20	030026831	A 1						

File: PGPB

PGPUB-DOCUMENT-NUMBER: 20030026831

PGPUB-FILING-TYPE: new

L6: Entry 4 of 16

DOCUMENT-IDENTIFIER: US 20030026831 A1

TITLE: Anionic liposomes for delivery of bioactive agents

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

CITY	STATE	COUNTRY	RULE-47
Minneapolis	MN	US	
St. Paul	MN	US	
Shorewood	MN	US	
LaJolla	CA	US	
	Minneapolis St. Paul Shorewood	Minneapolis MN St. Paul MN Shorewood MN	Minneapolis MN US St. Paul MN US Shorewood MN US

US-CL-CURRENT: $\underline{424}/\underline{450}$

Full Title Citation Front Review Classifi	ostion Date Reference Sequences Afte	achments Claims KNMC Draw. De
5. Document ID: US 2003000		
L6: Entry 5 of 16	File: PGPB	Jan 2, 2003

h eb b g ee ef b e

PGPUB-DOCUMENT-NUMBER: 20030003511

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030003511 A1

TITLE: Closure of bacterial ghost

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Lubitz, Werner

Vienna

AT

Paukner, Susanne

Krems

AT

US-CL-CURRENT: 435/7.1

Full Title Citation	Front Review Classifica	ition Date Reference	Sequences Attachments	Claims 10000 Draw Dr

6. Document ID: US 20020147309 A1

L6: Entry 6 of 16

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020147309

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020147309 A1

TITLE: Human N-type calcium channel isoform and uses thereof

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY RULE-47

Lipscombe, Diane

Barrington

RI

US GB

Schorge, Stephanie

Charvil

GE

US-CL-CURRENT: <u>530/350</u>; <u>424/146.1</u>, <u>530/388.26</u>, <u>536/23.2</u>

Full Title Citation Front	Review Classification	Date Reference	Sequences Att	achments Claims	KMC Draw. De
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7. Document ID: US 20010046664 A1

L6: Entry 7 of 16

File: PGPB

Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010046664

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010046664 A1

TITLE: Screening assays using intramitochondrial calcium

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Murphy, Anne N.

Encinitas

CA

US

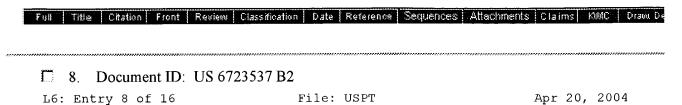
Stout, Amy K.

Atlanta

GΑ

US

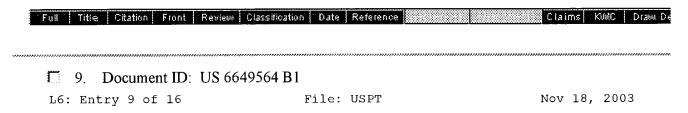
US-CL-CURRENT: 435/4; 435/6



US-PAT-NO: 6723537

DOCUMENT-IDENTIFIER: US 6723537 B2

TITLE: Directed evolution of protein in mammalian cells

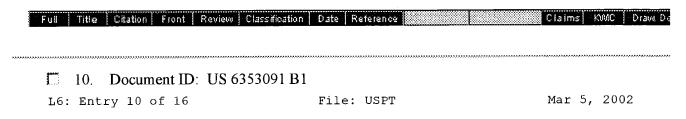


US-PAT-NO: 6649564

DOCUMENT-IDENTIFIER: US 6649564 B1

TITLE: Information recording sheet and method of manufacturing information

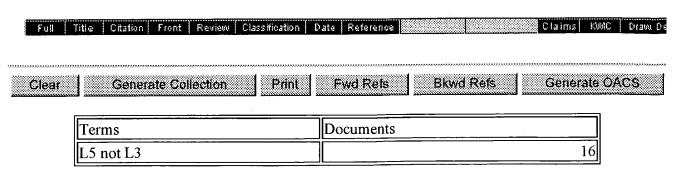
recording sheet



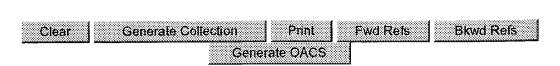
US-PAT-NO: 6353091

DOCUMENT-IDENTIFIER: US 6353091 B1

TITLE: Human N-type calcium channel isoform



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11. Document ID: US 6316409 B1

L6: Entry 11 of 16

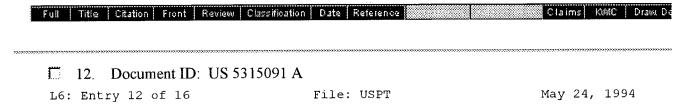
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Nov 13, 2001

US-PAT-NO: 6316409

DOCUMENT-IDENTIFIER: US 6316409 B1

TITLE: Modified ligands of calcium-dependent binding proteins



US-PAT-NO: 5315091

DOCUMENT-IDENTIFIER: US 5315091 A

** See image for Certificate of Correction **

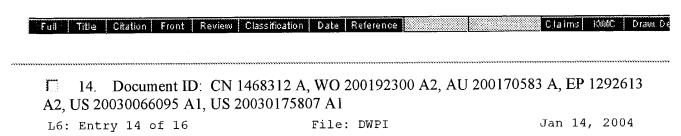
TITLE: Resistively heated sample preparation apparatus

Full Title Citation Front Review Clas	ssification Date Reference	Claims KWIC Draw De
13. Document ID: EP 12389		
L6: Entry 13 of 16	File: EPAB	Sep 11, 2002

PUB-NO: EP001238982A1

DOCUMENT-IDENTIFIER: EP 1238982 A1

TITLE: A Fluorescent Protein



DERWENT-ACC-NO: 2002-139605

DERWENT-WEEK: 200423

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TITLE: New <u>fusion</u> protein comprising a modified bioluminescent system with a <u>fluorescent</u> molecule covalently linked with a photoprotein, useful for monitoring calcium fluxes or for detecting electrical activity in a group of neural cells

Full Title Citation Front Review Classification Date Reference Claims KMC Draw De

15. Document ID: WO 9003576 A, JP 2907473 B2, AU 8943068 A, EP 436598 A, JP 04500907 W, AU 634980 B, EP 436598 B1, DE 68925973 E, CA 1339557 C

L6: Entry 15 of 16

File: DWPI

Apr 5, 1990

DERWENT-ACC-NO: 1990-132355

DERWENT-WEEK: 199930

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TITLE: Selection of hybrid cells - by fluorescence activated cell sorting of cell populations labelled with different fluorescent dyes

Full Title Citation Front Review Classification Date Reference Claims KMC Draw De

US-PAT-NO: 2210780

DOCUMENT-IDENTIFIER: US 2210780 A

TITLE: Electric discharge tube

DATE-ISSUED: August 6, 1940

INVENTOR-NAME: MARCEL SERVIGNE

US-CL-CURRENT: 313/486; 252/301.4R, 252/301.5, 313/577

Full	Title Citation			Classification	Date	Reference			Claims	KWMC	Drawi De
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1. Document ID: US 20040023203 A1

L1: Entry 1 of 7

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023203

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040023203 A1

TITLE: Heterologous stimulus-gated ion channels and methods of using same

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Miesenbock, Gero New York NY US Zemelman, Bosis New York NY US

US-CL-CURRENT: 435/4; 435/320.1, 435/325, 435/456, 530/350, 558/273, 558/275

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw, De

2. Document ID: US 20030161039 A1

L1: Entry 2 of 7

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030161039

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030161039 A1

TITLE: Illumination system for microscopy and observation or measuring method using

the same

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Fukano, Takashi Wako-shi NY JP
Miyawaki, Atsushi Wako-shi JP
Shimizu, Keiji Tokyo JP
Kawano, Yoshihiro Hicksville US

h eb bgeeef e hg ef be

US-CL-CURRENT: 359/388; 359/368, 359/385

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

3. Document ID: US 20030017538 A1

L1: Entry 3 of 7

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017538

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017538 A1

TITLE: Fluorescent protein

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Miyawaki, Atsushi

Wako-shi

JΡ

Nagai, Takeharu

Tokyo

JΡ

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/7.21, 530/350, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

4. Document ID: US 20030004306 A1

L1: Entry 4 of 7

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004306

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030004306 A1

TITLE: Fluorescent protein

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Miyawaki, Atsushi

Wako-shi

JΡ

Nagai, Takeharu

Tokyo

JΡ

US-CL-CURRENT: 530/300

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

5. Document ID: US 6686763 B1

L1: Entry 5 of 7

File: USPT

Feb 3, 2004

bgeeef e hg ef e b h

b e

US-PAT-NO: 6686763

DOCUMENT-IDENTIFIER: US 6686763 B1

TITLE: Near-zero propagation-delay active-terminator using transmission gate

Full Title Citation Front Review Classification Date Reference Claims KMC Draw De

6. Document ID: US 6686763 B1

L1: Entry 6 of 7 File: DWPI Feb 3, 2004

DERWENT-ACC-NO: 2004-189714

DERWENT-WEEK: 200418

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TITLE: Non-zero propagation delay active terminating buffer for transmission line, uses gate signal from control logic to connect or disconnect load to transmission line

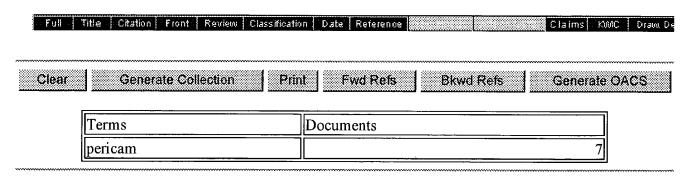
Full	Title Citation Front	Review Classification Date Reference	Claims NAMC Draw, De
		US 20030004306 A1, EP 1238982 A1, J	
L1:	Entry 7 of 7	File: DWPI	Jan 2, 2003

DERWENT-ACC-NO: 2002-724916

DERWENT-WEEK: 200305

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TITLE: New fluorescent protein, useful as indicator for quantifying calcium ion concentration, comprises a fusion of a fluorescent protein, a calcium binding protein and a linker



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 NEWS
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          May 12
                   EXTEND option available in structure searching
       4
          May 12
                   Polymer links for the POLYLINK command completed in REGISTRY
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 NEWS
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                   Additional enzyme-catalyzed reactions added to CASREACT
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 NEWS
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 NEWS EXPRESS
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FULL ESTIMATED COST
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     PubMed ID: 15024001
DN
     Ca(2+) homeostasis during mitochondrial fragmentation and perinuclear
TI
     clustering induced by hFis1.
     Frieden Maud; James Dominic; Castelbou Cyril; Danckaert Anne; Martinou
ΑU
     Jean-Claude; Demaurex Nicolas
     Department of Physiology, University of Geneva Medical Center, Geneva 4,
CS
     Switzerland.
     Journal of biological chemistry, (2004 May 21) 279 (21) 22704-14.
S0
     Journal code: 2985121R. ISSN: 0021-9258.
CY
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                   ***fluorescent***
TI
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     Hasan, Mazahir T.; Friedrich, Rainer W.; Euler, Thomas; Larkum, Matthew E.; Duebel, Ens; Waters, Jack; Bujard, Hermann; Griesbeck, Oliver; Tsien,
     Roger Y.; Nagai, Takeharu; Miyawaki, Atsushi; Denk, Winfried
     Max Planck Institute for Medical Research, Heidelberg, Germany
CS
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CODEN: PBLIBG; ISSN: 1545-7885
S0
     URL: http://www.plosbiology.org/archive/1545-7885/2/6/pdf/10.1371_1545-
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TT
     Mice under TET Control.
ΑU
     Hasan Mazahir T; Friedrich Rainer W; Euler Thomas; Larkum Matthew E; Giese
     G G uNter; Both Matthias; Duebel Jens; Waters Jack; Bujard Hermann;
     Griesbeck Oliver; Tsien Roger Y; Nagai Takeharu; Miyawaki Atsushi; Denk
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Winfried
     Max Planck Institute for Medical Research, Heidelberg, Germany...
CS
     mhasan@mpimf-heidelberg.mpg.de
     PLoS biology, (2004 Jun) 2 (6) E163.
Journal code: 101183755. ISSN: 1544-9173.
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     Last Updated on STN: 20040624
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      Activating eukaryotic target cells involves sensitizing target cells by
TT
      expressing heterologous stimulus-gated ion channel in target cells and
      applying stimulus to sensitized target cells to trigger ion channel;
         activating eukaryotic target cell production by vector-mediated
         heterologous stimulus-gated ion channel TRPV1, TRPM8 and P2X2 gene transfer and expression, transgenic mouse and knock-in animal for
         neuronal or neuroendocrine pathway mapping, diagnosis and gene therapy
      MIESENBOCK G A; ZEMELMAN B V
ΑU
      SLOAN KETTERING INST CANCER RES
PΑ
      WO 2003102156 11 Dec 2003
WO 2003-US17448 2 Jun 2003
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      US 2003-441452 21 Jan 2003; US 2002-384670 31 May 2002
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      English
LA
      WPĬ: 2004-043101 [04]
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     ANSWER 5 OF 25 SCISEARCH COPYRIGHT 2004 THOMSON ISI ON STN
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ΑN
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GΑ
     Sustained Ca2+ transfer across mitochondria is essential for mitochondrial
ΤI
     Ca2+ buffering, store-operated Ca2+ entry, and Ca2+ store refilling
     Malli R; Frieden M; Osibow K; Zoratti C; Mayer M; Demaurex N; Graier W F
ΑU
     (Reprint)
     Graz Univ, Dept Med Biochem & Med Mol Biol, Harrachgasse 21-3, A-8010
CS
     Graz, Austria (Reprint); Graz Univ, Dept Med Biochem & Med Mol Biol,
     A-8010 Graz, Austria; Univ Geneva, Dept Physiol, CH-1211 Geneva 4,
     Switzerland
     Austria; Switzerland
CYA
     JOURNAL OF BIOLOGICAL CHEMISTRY, (7 NOV 2003) Vol. 278, No. 45, pp.
so
     44769-44779.
     Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE
     PIKE, BETHESDA, MD 20814-3996 USA. ISSN: 0021-9258.
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     Stable interactions between mitochondria and endoplasmic reticulum allow
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     rapid accumulation of calcium in a subpopulation of mitochondria.
Filippin Luisa; Magalhaes Paulo J; Di Benedetto Giulietta; Colella
ΑU
     Matilde; Pozzan Tullio
     Department of Biomedical Sciences and CNR Institute of Neuroscience,
CS
     University of Padua, Viale G. Colombo 3, 35121 Padua, Italy..
     luisa.filippin@unipd.it
     Journal of biological chemistry, (2003 Oct 3) 278 (40) 39224-34.
SO
     Journal code: 2985121R. ISSN: 0021-9258.
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
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                    MEDLINE
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DΝ
     PubMed ID: 12960050
     Intracellular transport of calcium from plasma membrane to mitochondria in
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     Lalevee Nathalie; Resin Veronique; Arnaudeau Šerge; Demaurex Nicolas;
     Rossier Michel F
CS
     Division of Endocrinology and Diabetology, Department of Internal
     Medicine, University Hospital, CH-1211 Geneva 14, Switzerland. Endocrinology, (2003 Oct) 144 (10) 4575-85.
S0
     Journal code: 0375040. ISSN: 0013-7227.
CY
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     200310
     Entered STN: 20030923
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     Last Updated on STN: 20031030
     Entered Medline: 20031029
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     The Genuine Article (R) Number: 755PZ
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     phospholipase C in calf pulmonary endothelial cells
     Zoratti C; Kipmen-Korgun D; Osibów K; Malli R; Graier W F (Reprint)
Graz Univ, Dept Med Biochem & Med Mol Biol, Harrachgasse 21-III, A-8010
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     Graz, Austria (Reprint); Graz Univ, Dept Med Biochem & Med Mol Biol,
     A-8010 Graz, Austria
CYA
     Austria
     BRITISH JOURNAL OF PHARMACOLOGY, (DEC 2003) Vol. 140, No. 8, pp.
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     Publisher: NATURE PUBLISHING GROUP, MACMILLAN BUILDING, 4 CRINAN ST,
     LONDON N1 9XW, ENGLAND.
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DT
     Article; Journal
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     Reference Count: 56
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                                                             DUPLICATE 4
     on STN
     2003078812 EMBASE
AΝ
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     Development of genetically encoded
                                                                   indicators for
ΤI
    Miyawaki A.; Mizuno H.; Nagai T.; Sawano A.
A. Miyawaki, Laboratory for Cell Function, Adv. Technology Development
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     2003:475640 HCAPLUS
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     140:107562
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     by imaging
ΑU
     Nagai, Takeharu; Miyawaki, Atsushi
     Laboratory for Cell Function Dynamics, RIKEN Brain Science Institute,
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     Wako, Saitama, 351-0198, Japan
SO
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PΒ
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LA
     Japanese
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      Demaurex Nicolas; Frieden Maud
JAU.
      Department of Physiology, University of Geneva Medical Center, 1,
CS
      Michel-Servet, CH-1211 4, Geneva, Switzerland..
      nicolas.demaurex@medecine.unige.ch
      Cell calcium, (2003 Aug) 34 (Ž) 109-19.
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      J. Nakai, Department of Information Physiology, Natl. Inst. for
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      Physiological Sci., Myodaiji, Okazaki, 444-8585, Japan.
      inakai@brain.riken.go.jp
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Sugiyama, T. [Reprint Author]; Ikeda, M.; Mizuguchi, H.; Kohsaka, S.;
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      PREV200400199172
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     Dept. Anat. and NeuroBiol., Univ. Vermont Col. Med, Burlington, VT, USA
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       2003-03861
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                                   protein, useful as indicator for quantifying
TT
       New
       calcium ion concentration, comprises a fusion of a ***fluorescent***
       protein, a calcium binding protein and a linker;
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          calcium ion concentration measurement
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       RIKEN KK
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      EP 1238982 11 Sep 2002
       EP 2002-4353 4 Mar 2002
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     Miyawaki, Atsushi; Nagai, Kenji
Institute of Physical and Chemical Research, Japan
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     CODEN: JKXXAF
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                        KIND DATE
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                                                                  DATE
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     JP 2002253261
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                               20020910
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     EP 1238982
                               20020911
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                                                                   20020304
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
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PRAI JP 2001-59892
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 Circularly permuted green
 sense Ca2+ and their application to imaging of subcellular Ca2+ dynamics
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 Mizuno, Hideaki
 Laboratory for Cell Function Dynamics, RIKEN, BSI, RIKEN, Japan
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 Laboratory for Cell Function and Dynamics, Advanced Technology Development
 Center, Brain Science Institute, RIKEN, Wako-city, Saitama, Japan.
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      Department of Biomedical Sciences, CNR Center of Biomembranes, University of Padua, Via Colombo 3, 35121 Padua, Italy.. pozzant@civ.bio.unipd.it EMBO journal, (2001 Sep 3) 20 (17) 4998-5007. Journal code: 8208664. ISSN: 0261-4189.
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      2002007188
                                   MEDLINE
      PubMed ID: 11248055
                                                          ***fluorescent*** proteins engineered to
      Circularly permuted green
      sense Ca2+.
      Nagai T; Sawano A; Park E S; Miyawaki A
Laboratory for Cell Function and Dynamics, Advanced Technology Development
Center, Brain Science Institute, Institute of Physical and Chemical
Research (RIKEN), 2-1 Hirosawa, Wako, Saitama, 351-0198, Japan.
Proceedings of the National Academy of Sciences of the United States of
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      Entered STN: 20020121
Last Updated on STN: 20030105
      Entered Medline: 20011204
> d 17, 25 ab
      ANSWER 17 OF 25 HCAPLUS COPYRIGHT 2004 ACS on STN Fusion proteins of ***fluorescent*** protein with a calcium-binding protein and its peptide substrate, whose ***fluorescence*** varies in
      a Ca2+-dependent manner, and its use as Ca2+ sensor, are disclosed. Green ***fluorescent*** protein (GFP), yellow ***fluorescent*** protein (YFP), cyan-green ***fluorescent*** protein (CGFP), red
          FP), cyan-green ***fluorescent*** protein (CGFP), red
***fluorescent*** protein, or blue ***fluorescent***
                                                                                                                            protein, and
      their derivs. are used. Calmodulin, troponin C, calcineurin B, myosin
      light chain, S-modulin, visinin, VILIP, neurocalcin, hippocalcin, frequenin, caltolactin, calpain large subunit, S100 protein, parvalbumin, calbindin D9k, calbinding D28k, or calretinin, are used as fusion partner.
      To visualize Ca2+-dependent protein-protein interactions in living cells
      by ***fluorescence*** readouts, the authors used a circularly permuted green ***fluorescent*** protein (cpGFP), in which the amino and carboxyl portions had been interchanged and reconnected by a short spacer
      between the original termini. The cpGFP was fused to calmodulin and its target peptide, M13. The chimeric protein, which the authors have named "
***pericam*** ," was ***fluorescent*** and its spectral properties changed reversibly with the amt. of Ca2+, probably because of the interaction between calmodulin and M13 leading to an alteration of the
      environment surrounding the chromophore. Three types of ***pericam***
      were obtained by mutating several amino acids adjacent to the chromophore. of these, "flash- ***pericam*** " became brighter with Ca2+, whereas "inverse- ***pericam*** " dimmed. On the other hand, "ratiometric-
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***pericam*** " had an excitation wavelength changing in a Ca2+-dependent manner. All of the ***pericams*** expressed in HeLa cells were able
to monitor free Ca2+ dynamics, such as Ca2+ oscillations in the cytosol and the nucleus. Ca2+ imaging using high-speed confocal line-scanning microscopy and a flash- ***pericam*** allowed to detect the free propagation of Ca2+ ions acrossophand nucleus. Then nucleus and misschondnia ware simultaneously massured by
concns. in the nucleus and mitochondria were simultaneously measured by using ratio-metric- ***pericams*** having appropriate localization
signals, revealing that extra-mitochondrial Ca2+ transients caused rapid
changes in the concn. of mitochondrial Ca2+. Finally, a "split-
***pericam*** " was made by deleting the linker in the flash-
    ***pericam***
                               . The Ca2+-dependent interaction between calmodulin and
M13 in HeLa cells was monitored by the assocn. of the two halves of GFP,
                                        ***fluorescent*** by itself.
neither of which was
ANSWER 25 OF 25
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To visualize Ca(2+)-dependent protein-protein interactions in living cells
          ***fluorescence*** readouts, we used a circularly permuted green
    ***fluorescent*** protein (cpGFP), in which the amino and carboxyl
portions had been interchanged and reconnected by a short spacer between
the original termini. The cpGFP was fused to calmodulin and its target peptide, M13. The chimeric protein, which we have named " ***pericam***," was ****fluorescent*** and its spectral properties changed
reversibly with the amount of Ca(2+), probably because of the interaction between calmodulin and M13 leading to an alteration of the environment surrounding the chromophore. Three types of ***pericam*** were obtained by mutating several amino acids adjacent to the chromophore. Of these, "flash- ***pericam*** " became brighter with Ca(2+), whereas "inverse- ***pericam*** " dimmed. On the other hand, "ratiometric-
***pericam*** " had an excitation wavelength changing in a
                                                                       ***pericams***
Ca(2+)-dependent manner. All of the
                                                                                                      expressed in HeLa
cells were able to monitor free Ca(2+) dynamics, such as Ca(2+)
oscillations in the cytosol and the nucleus. Ca(2+) imaging using high-speed confocal line-scanning microscopy and a flash- ***pericam***
allowed to detect the free propagation of Ca(2+) ions across the nuclear envelope. Then, free Ca(2+) concentrations in the nucleus and mitochondria were simultaneously measured by using ratiometric-
    ***pericams*** having appropriate localization signals, revealing that
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extra-mitochondrial Ca(2+) transients caused rapid changes in the concentration of mitochondrial Ca(2+). Finally, a "split- ***pericam***

" was made by deleting the linker in the flash- ***pericam***. The Ca(2+)-dependent interaction between calmodulin and M13 in HeLa cells was monitored by the association of the two halves of GFP, neither of which

fluorescent by itself.

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      2002:682860 HCAPLUS
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      137:227639
TI
     Calmodulin fusion proteins of circularly permuted green
        ***fluorescent*** proteins engineered to sense Ca2+
     Miyawaki, Atsushi; Nagai, Kenji
Institute of Physical and Chemical Research, Japan
IN
PΑ
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S0
      CODEN: JKXXAF
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      Patent
     Japanese
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                          KIND DATE
                                                   APPLICATION NO. DATE
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US 2003004306 A1 20030102 US 2002-86738 20020304
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20010305

2002007188 MEDLINE ΑN

PubMed ID: 11248055 DΝ

PRAI JP 2001-59892

Nagai T; Sawano A; Park E S; Miyawaki A ΑU

Circularly permuted green ***fluorescent*** proteins engineered to TI sense Ca2+.

Laboratory for Cell Function and Dynamics, Advanced Technology Development

Center, Brain Science Institute, Institute of Physical and Chemical Research (RIKEN), 2-1 Hirosawa, Wako, Saitama, 351-0198, Japan. Proceedings of the National Academy of Sciences of the United States of so. America, (2001 Mar 13) 98 (6) 3197-202. Journal code: 7505876. ISSN: 0027-8424. United States ĊΥ Journal; Article; (JOURNAL ARTICLE) DT LA English Priority Journals FS 200112 EΜ ED Entered STN: 20020121 Last Updated on STN: 20030105 Entered Medline: 20011204 => dis his (FILE 'HOME' ENTERED AT 18:51:12 ON 22 JUL 2004) FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 18:51:23 ON 22 JUL 2004 96 S PERICAM L1 L2 L3 76 S PERICAM AND FLUORESCEN? 25 DUP REM L2 (51 DUPLICATES REMOVED) => log h COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY **SESSION**

FULL ESTIMATED COST

51.98 52.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE **TOTAL ENTRY SESSION** -0.74-0.74

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